

Department of Watershed Management Operations & Performance Report

March 2006

**Prepared
for
Atlanta City Council**



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Introduction

The Department of Watershed Management oversees the delivery of drinking water and wastewater services to Atlanta's residents and ratepayers. The delivery of these essential services includes responsibility for several significant areas:

- Developing an annual strategic plan for management, operation, maintenance and delivery of water and wastewater services to Atlanta ratepayers, and measurement of performance against plan
- Management of 1,818 personnel (authorized positions) dedicated to providing water and wastewater services daily
- Operation and maintenance of the facilities and infrastructure involved in conveying clean drinking water to homes and businesses and carrying wastewater from homes and businesses for treatment before discharge into area waterways
- Ensuring the timely and effective completion of the City's multibillion dollar water resources capital improvement plan, *Clean Water Atlanta*
- Future stormwater management

Accomplishments: The Department of Watershed Management is dedicated to providing the highest quality drinking water and wastewater services to Atlanta businesses and residents and to its wholesale customers at the lowest possible cost, while protecting urban waterways, conserving natural resources, and providing clean, safe water for downstream customers. Highlights of 2005 and first quarter 2006 include:

- All work associated with the CSO Consent Decree is underway. Construction on these projects began ahead of schedule: Custer Avenue CSO and Dechlorination project; West CSO Treatment Plant; Intrenchment Creek Treatment Plants. The three sewer separation projects – in the Greensferry and McDaniel basins and Stockade subbasin - began on schedule.
- Completed water main replacement and sewer rehabilitation projects in five Atlanta communities.
- Completed construction of the Nancy Creek Tunnel and Pumping Station on time and on budget and placed system in operation. Capacity limited sewer overflows from the Nancy Creek Interceptor Sewer have been eliminated.
- Started work to replace 110,000 feet of water pipes and recondition over 48,000 feet of sewer lines in the Virginia-Highland area, and continued with the design of five transmission main and pump station improvement projects.
- Acquired 155 parcels of land, comprising over 789 acres, thereby protecting 17 miles of streambank through the Greenway Acquisition Program.
- Converted to monthly billing to make it easier for our customers to pay their bills. Introduced online bill payment to customers and extended Customer Service telephone hours. Partnered with Fidelity Express to provide satellite payment locations throughout the city.
- South River, R.M. Clayton and Utoy Creek Water Reclamation Centers received awards from the Association of Metropolitan Sewerage Agencies and the Georgia Water and Pollution Control Association for outstanding operations.
- Communications & Community Outreach Group received the Public Education Program of the Year Award from the Georgia Association of Water Professionals.
- Continued three-year water meter inspection, repair and replacement program, starting with large commercial meters. *Leak Busters* have repaired or replaced more than 7,000 meters.
- Completed 30% of total Sewer System Evaluation Survey (SSES), to physically inspect and assess the condition of the sewer system -- ahead of consent decree schedule.
- All divisions within the department developed strategic plans for operation in 2006 and 2007.



City of Atlanta's Department of Watershed Management

Vision

Atlanta will be **THE** leader of the water resources industry — serving our customers, protecting our watersheds and improving the environment.

Mission

- **Ensure professional stewardship of Atlanta's drinking water, wastewater and stormwater systems**
- **Deliver excellent customer service**
- **Invest in the development of a motivated, skilled and empowered workforce**
- **Protect the present and enhance the future of the region's water resources and public health**
- **Improve the environment while supporting economic development**

Values

EFFECTIVE We are a results-oriented organization that delivers quality service in a professional manner, empowering innovation to add value and continually improving our people, systems and service.

ETHICAL We demand the highest integrity as demonstrated through honest and trustworthy behavior by all our employees.

ACCOUNTABLE We take responsibility for our actions and operate in an open and transparent manner.

EQUITABLE We treat all customers, stakeholders and each other fairly and respectfully.

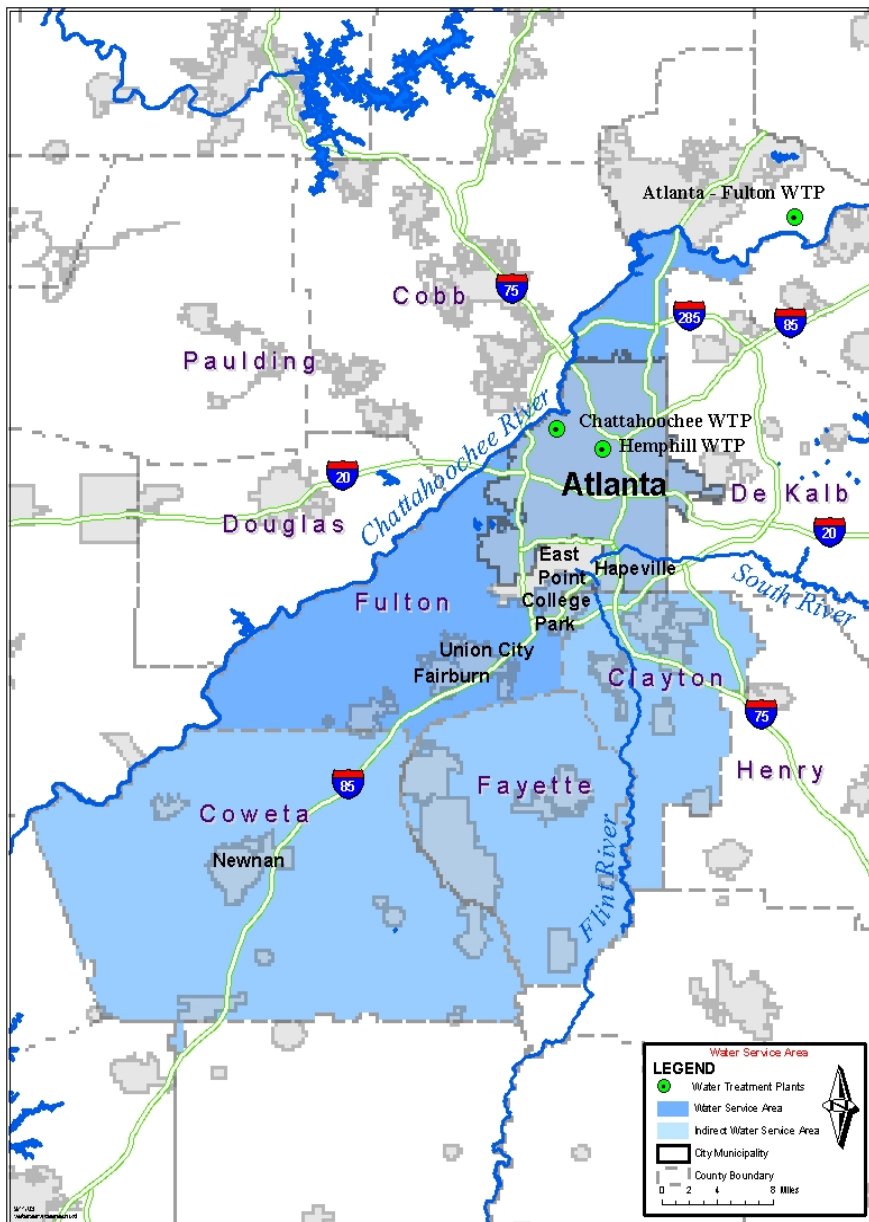
SAFE We are committed to the safety of our employees and to the security of our systems.



Drinking Water



Drinking Water Service Area



Provide safe drinking water and fire services to 1 million people daily



Operational Performance - Water

Overall performance continues to improve.

Performance Measure	2003	2004	2005	Thru March 2006
Safe Drinking Water Act Violations	0	0	0	0
Boil Water Advisories	0	1	2	0
Meters Read (%)	60%	96%	96%	97%
Response to Water Quality Complaints within 24 hours			100%	100%

Meter Reading Performance:

- At the end of 2005, 96% of the meters were read. By March 2006, 97% were read. Our goal is 99-100%.
- The Large Meter Testing and Repair/Replace Program is ongoing, with 84 replacements made in 2006 so far.



Wastewater Treatment and Collection



Wastewater Service Area

Protect
community
health by
providing
wastewater
services to 1.2
million people
daily, treating
145 MGD



Operational Performance – Wastewater

Performance Measure	3rd Qtr 2005	4th Qtr 2005	Total For 2005	Thru March 2006
NPDES Violations at Treatment Plants	0	0	0*	0
Sampling Violations at CSO Facilities	0	0	0	0
Fecal Violations at CSO Facilities	3	0	4	5**
Clean 25% (400 miles) of sewer system per year	171.38	140.29	675.63	145.0
Inspect 12.5% (200 miles) of sewer system per year	75.09	25.65	238.20	57.7
Rehabilitate 2.0% of sewer system per year (miles)	1.94	2.54	14.65	8.5
Inspect grease traps at 1878 permitted facilities twice/yr (began Jan 02)	1,638	1,775	7,304	2,205

*An NPDES violation was originally reported for the treatment plants for 2nd quarter. However, that violation was due to a laboratory test error, not because of plant performance. Therefore, the EPD determined in January 2006 that there was no violation.

**The combined reliability of CSO Control Facilities with regard to meeting operational standards for fecal coliform is 99+%.

Sewer Repairs Completed Within 30 Days:

Target 100%

- September 30, 2005 54%
- December 31, 2005 70%
- March 31, 2006 62%

Catch Basins Cleaned Within 30 Days:

Target 100%

- September 30, 2005 82%
- December 31, 2005 91%
- March 31, 2006 82%

Spill Containment within 120 Minutes:

Target 70%

- 3rd Quarter 2005 52%
- 4th Quarter 2005 53%
- 1st Quarter 2006 62%



Engineering and Construction Management



Drinking Water Projects

Virginia-Highland Water Main Replacement Project

- Aged and deteriorating water mains in the Virginia-Highland area do not have sufficient capacity to serve the community; over the years, corrosion and sediment accumulation have affected the flow rate and caused water discoloration in this area.
- The 6-inch pipes, mostly installed in the early 1900s, are being replaced by approximately 100,000 of new 8-inch pipes and 10,000 feet of 12-inch water mains.

Construction Status:

- Approximately 12,600 feet have been installed since the project began in early February 2006.

Water System Components Survey

- The Water System Components Survey is an audit of Atlanta's water distribution system. It will allow the inspection and inventory of water system components (i.e., hydrants, valves and meters) and the detection of leaks and closed relief valves that can cause blockages and 'dead ends' in the system. Undetected leaks are major contributors to water loss and blockages contribute to system problems by decreasing water flows and creating water discoloration and water odor.
- Atlanta's water distribution system is divided into 22 meter zones and sub-divided into 535 meter routes. The survey will be conducted system-wide on a meter zone basis, completing surveying work and repairs in all routes within each zone.
- Data collected from the survey will allow for repairs and improvements in operations.

Survey Status:

- Inventory and testing is complete in 6 of the 22 Meter Zones (1, 16, 17, 22, 14, and 15).
- Structures inventoried/operated:
 - 14,110 (29%) of 48,000 relief valves
 - 7,559 (31%) of 21,000 hydrants
 - 504 (15%) of 3,100 meters
- Work will soon start in Meter Zone 24 (North Fulton).



Wastewater Projects

West Area CSO Consolidated Tunnel Storage and Treatment Project

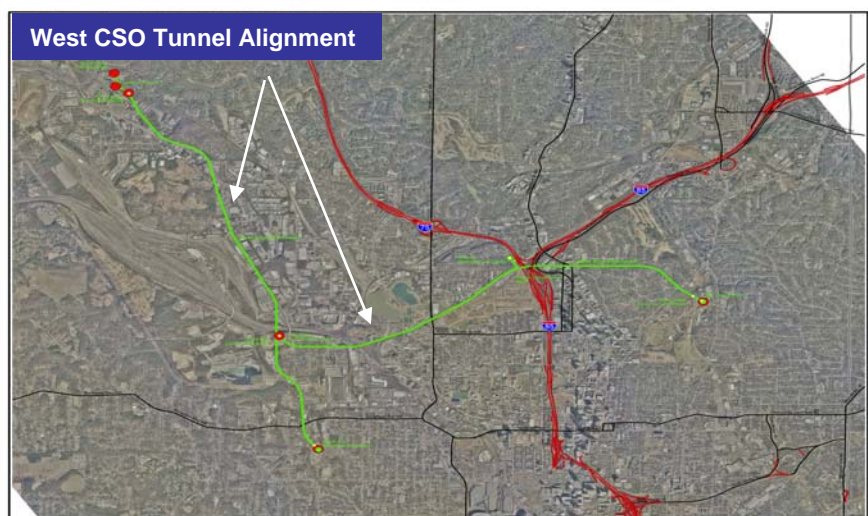
- Storage tunnel will capture, store and convey overflows from West Area CSOs
- Overflows stored in the tunnel will be pumped and treated at a new CSO treatment plant
- Treatment plant will discharge to Peachtree Creek, approx. 400 feet from its confluence with the Chattahoochee River or directly to the Chattahoochee River

Tunnel size

- 8.7 miles long
- 24-foot diameter
- 177 million gallon capacity (with pump station)

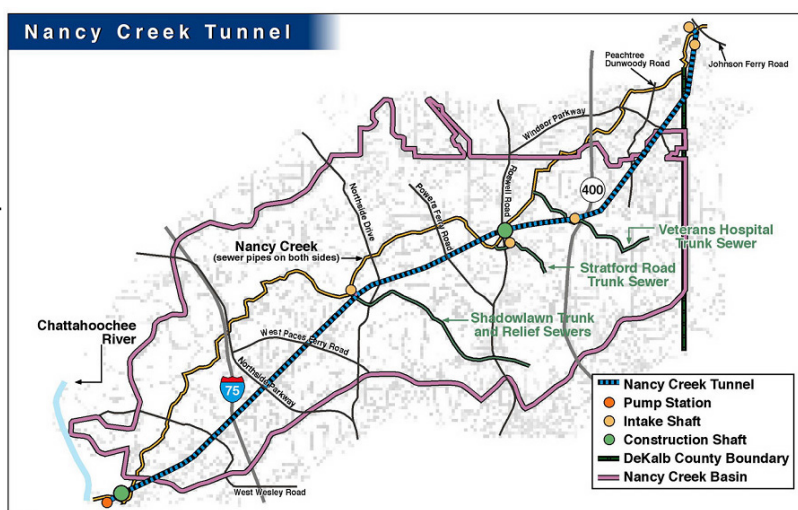
Construction status

- R.M. Clayton shaft – 206 feet
- Rockdale shaft – 312 ft.
- Clear Creek shaft – 162 ft.
- North Avenue shaft – 226 ft.
- RMC Pump Station Shaft – 201 ft.
- TBM mining at R.M. Clayton – 5,150 of 22,355 ft. (23%)
- TBM mining at Rockdale – 3,437 of 19,947 ft. (17%)



Nancy Creek Tunnel & Pump Station

- The Nancy Creek Tunnel and Pump Station were substantially completed 12/31/2005. Capacity-related overflows from the Nancy Creek Interceptor have been eliminated. These facilities are projected to reduce the number of spills city-wide, on an annual basis, by 18%, with volume reduced potentially by 45%.



CSO Remedial Plan - Implementation

Objective – Consent Decree Compliance by Nov 2007 for CSO Facilities

- Achieve water quality standards in receiving streams
- Capture and treat total volume of CSOs at each of the 6 facilities

Projects Under Construction and Completion Status

- **West Area CSO Storage Tunnel** – construction began June 2004. Project is 44% complete and is proceeding as planned.
- **West Area CSO Treatment Plant** – construction began on September 1, 2005. Project is 35% complete, and is anticipated to meet or beat the scheduled completion deadline of October 15, 2007.
- **West Area Dechlorination Facilities** – construction was completed in January 2006, ahead of the Consent Decree deadline of February 2006.
- **Custer Avenue Storage and Dechlorination Facilities** - construction began February 2005. Project is 65% complete and is anticipated to be completed by November 2006, ahead of the March 2007 deadline.
- **Intrenchment Creek CSO Treatment Plant** – Construction began February 2005. Project is 60% complete and anticipated to meet or beat the Consent Decree deadline of February 1, 2007.
- **Greensferry Basin Combined Sewer Separation & Water Main Replacement** – Notice to Proceed was issued in July 2005. Construction is underway. Project is 30% complete and anticipated to meet the Consent Decree deadline of September 27, 2007.
- **McDaniel Basin Combined Sewer Separation** – Notice to Proceed was issued in May 2005. Construction is underway. Project is 30% complete and is anticipated to meet the Consent Decree deadline of September 1, 2007.
- **Stockade Sub-Basin Combined Sewer Separation** – Notice to Proceed was issued in May 2005. Construction is underway. Project is 30% complete and is anticipated to meet the Consent Decree deadline of September 1, 2007.



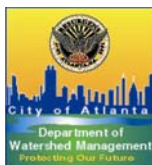
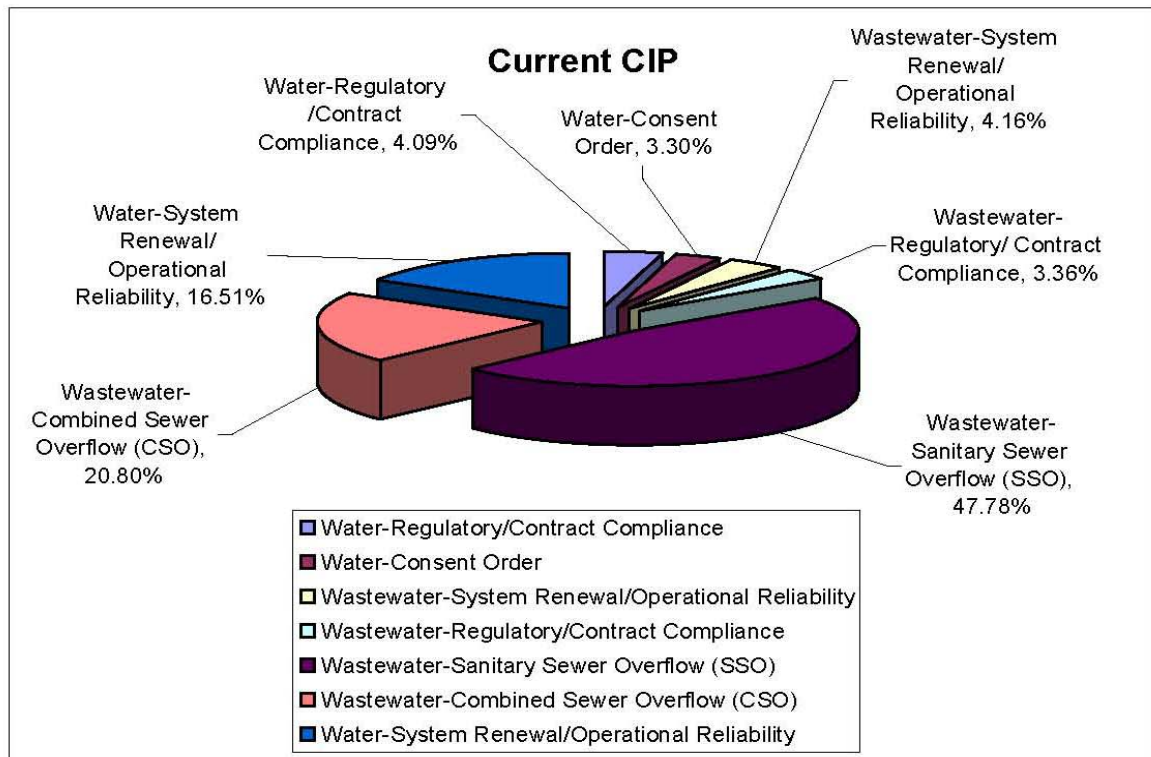
CSO Consent Decree Schedule

Notes	Projects	Milestone Dates	Actual Completion Date
1	Custer Avenue Storage and Dechlorination Facility [WBS 05.14.001]		
	Designer NTP	(A) 16-Sep-03 (1)	12-Sep-03
	Complete Design Development (60%)	1-Mar-04	27-Feb-04
	Complete Construction Documents (90%)	1-Jun-04	28-May-04
	Complete Final Design (100%)	1-Sep-04	31-Aug-04
	Contractor NTP	1-Mar-05	23-Feb-05
	Substantial Completion of Construction	1-Mar-07	
2	West Area CSO Treatment Plant [WBS 05.15.001]		
	Designer NTP	(A) 23-Sep-03 (1)	23-Sep-03
	Complete Design Development (60%)	26-Sep-04	24-Sep-04
	Complete Construction Documents (90%)	24-Jan-05	24-Jan-05
	Complete Final Design (100%)	5-Mar-05	4-Mar-05
	Contractor NTP	1-Sep-05	1-Sep-05
	Substantial Completion of Construction	15-Oct-07	
3	Intrenchment Creek CSO Treatment Plant [WBS 05.16.001]		
	Designer NTP	(A) 23-Sep-03 (1)	23-Sep-03
	Complete Design Development (60%)	1-Mar-04	26-Feb-04
	Complete Construction Documents (90%)	1-Jun-04	1-Jun-04
	Complete Final Design (100%)	1-Aug-04	30-Jul-04
	Contractor NTP	1-Feb-05	1-Feb-05
	Substantial Completion of Construction	1-Feb-07	
4	West Area Dechlorination [WBS 05.19.001]		
	Designer NTP	(A) 23-Sep-03 (1)	23-Sep-03
	Complete Design Development (60%)	1-Feb-04	30-Jan-04
	Complete Construction Documents (90%)	1-Apr-04	31-Mar-04
	Complete Final Design (100%)	1-Jun-04	28-May-04
	Contractor NTP	1-Dec-04	1-Dec-04
	Substantial Completion of Construction	1-Feb-06	26-Jan-06
5	East Area Dechlorination [WBS-05.20.001] Combine with Custer Avenue Storage		
	Designer NTP	(A) 23-Sep-03 (1)	23-Sep-03
	Complete Design Development (60%)	1-Feb-04	30-Jan-04
	Complete Construction Documents (90%)	1-Apr-04	31-Mar-04
	Complete Final Design (100%)	1-Sep-04	31-Aug-04
	Substantial Completion of Construction	1-Mar-07	24-Jan-06
6	West Area Storage Tunnel [WBS 05.14.001]		
	Designer NTP	(A) 16-Sep-03 (1)	12-Sep-03
	Complete Design Development (60%)	25-May-03	23-May-03
	Complete Construction Documents (90%)	23-Oct-03	23-Oct-03
	Complete Final Design (100%)	2-Jan-04	31-Dec-03
	Contractor NTP	12-Jul-04	1-Jun-04
	Substantial Completion of Construction	7-Nov-07	
7	Greensferry Combined Sewer Separation [WBS 05.17.400]		
	Designer NTP	25-Nov-03	25-Nov-03
	Complete Design Development (60%)	2-Jul-04	24-Jun-04
	Complete Construction Documents (90%)	30-Oct-04	30-Oct-04
	Complete Final Design (100%)	8-Feb-05	3-Feb-05
	Contractor NTP	19-Aug-05	26-Jul-05
	Substantial Completion of Construction	27-Sep-07	
8	Stockade Combined Sewer Separation [WBS 05.18.201]		
	Designer NTP	9-Oct-03	9-Oct-03
	Complete Design Development (60%)	1-May-04	17-Mar-04
	Complete Construction Documents (90%)	1-Aug-04	1-Aug-04
	Complete Final Design (100%)	1-Nov-04	1-Nov-04
	Contractor NTP	1-May-05	29-Apr-05
	Substantial Completion of Construction	1-Sep-07	
9	McDaniel Combined Sewer Separation [WBS 05.18.100]		
	Designer NTP	10-Oct-03	10-Oct-03
	Complete Design Development (60%)	1-May-04	17-Mar-04
	Complete Construction Documents (90%)	1-Aug-04	30-Jul-04
	Complete Final Design (100%)	1-Nov-04	1-Nov-04
	Contractor NTP	1-May-05	29-Apr-05
	Substantial Completion of Construction	1-Sep-07	

(1) - Non-Consent Decree Milestone Date / (A) - Actual Date

Combined CIP Budget and Expenditures Through March 2006

Program Category	Forecasted Budgeted Amount	Amount Under Contract
Wastewater		
Combined Sewer Overflow (CSO)	\$820,166,860	\$460,176,051
Sanitary Sewer Overflow (SSO)	\$1,884,020,832	\$371,328,847
Regulatory/Contract Compliance	\$132,393,479	\$70,750,208
System Renewal/Operational Reliability	\$163,928,036	\$27,420,220
Subtotal - Wastewater	\$3,000,509,207	\$929,675,326
Water		
Consent Order (Water)	\$130,009,283	\$53,754,809
Regulatory/Contract Compliance	\$161,148,467	\$43,431,011
System Renewal/Operational Reliability	\$651,208,642	\$138,786,414
Subtotal - Water	\$942,366,392	\$235,972,234
New Projects Total	\$3,942,875,600	\$1,165,647,560



Collection Rates through March 31, 2006



Collection Rates

Month	Net Billings	Cash Receipts	Collection Rate – Current Month	Collection Rate – Running 12 Months
July	\$24,599,806.61	\$22,324,476.53	90.75%	99.60%
August	\$25,159,160.14	\$25,699,947.80	102.15%	100.25%
September	\$23,449,315.34	\$22,820,287.66	97.32%	102.00%
October	\$27,390,049.85	\$25,914,146.43	94.61%	102.09%
November	\$24,756,140.42	\$23,271,647.30	94.00%	100.64%
December	\$25,346,095.79	\$21,927,524.29	86.51%	100.06%
2005 Total	\$277,952,744.09	\$278,115,160.40		
January 2006	\$22,579,370.96	\$25,099,742.33	111.16%	102.78%
February	\$20,222,300.62	\$22,438,453.74	110.96%	101.37%
March	\$17,711,737.01	\$21,924,253.18	123.78%	99.36%
Total to Date, 1st Q, 2006	\$60,513,408.59	\$69,462,449.25		

Collection Rate Performance:

- Rolling 12-month average through March 2006 is 99.36% (target 98.5%).
- \$4 million is scheduled to be written off.

Service Termination Activities (Cutting & Plugging/Account Locking*)

Month	# Cuts	# Plugs	Accounts Locked
July	2513	435	
August	2089	441	
September	3498	607	*Plugging was discontinued as of 1/13/06; a locking device is now being used instead. The locking device has proven more efficient and effective.
October	5311	643	
November	3404	713	
December	1035	218	
January	4367	63	0
February	3532	278	0
March	2951	0	250

Collections – Water Wholesale Customers

Water Wholesale Customer	Balance Due at 7/31/05	Balance Due at 3/31/2006
Clayton County	\$186,490	\$168,355
Coweta County	\$29,496	(\$2,220)
Fayette County	\$204,991	\$0
Fairburn	\$27,312	\$12
Hapeville	\$101,917	(\$5,295)
Union City	\$69,515	\$0
Totals	\$619,722	\$160,852



Collections – Wastewater Wholesale Customers

Wastewater Wholesale Customer	Balance Due at 3/31/06
Clayton County	- 0 -
Dekalb County	- 0 -
Fulton County	\$27,500,000
College Park	\$585,275
East Point	\$16,591,345
Hapeville	\$2,888,832
Totals	\$47,565,752

- DWM meets quarterly with each customer
- Project completion of negotiation with Fulton County 3rd quarter 2006
- East Point bond sale is scheduled to close in 3rd quarter, 2006



Call Center Performance
Meter Installations, Hydrant Repairs
Special Customer Initiatives



Call Center Performance

Call Center (404-658-6500)

Average Hold Time (minutes)

Target: 2 minutes

July	14.4	January 2006	2
August	10.5	February	34 secs
September	8.0	March	36 secs
October	10.1		
November	3.8		
December	2.4		

Percent of calls answered

Target: 90%

July	55%	January 2006	91%
August	64	February	97
September	70	March	97
October	70		
November	86		
December	90		

Meter Installations, Hydrant Repairs

Meter Installations

July	214	January 2006	474
August	448	February	776
September	321	March	518
October	362		
November	371	Open Orders	1,355
December	414	(Backlog) at 3/31/06	

Hydrant Repairs

July	382	January 2006	49
August	382	February	36
September	177	March	22
October	258		
November	228		
December	160		

Special Customer Initiatives

Senior Citizen Services


- 4,734 residents are participating in the Low Income Senior Citizen Discount Program, receiving a 30% discount on their water/sewer bill. Renewal applications are being processed for 2006.
- During Older Americans Month (May 2006), DWM staff will visit Atlanta area senior facilities to distribute information on the discount program and to renew customers already receiving the discount. Information was also distributed at NPU meetings.
- The May monthly bill stuffer is dedicated to seniors and will provide helpful information to our elderly customers.

Customer Information System

- The EnQuesta Customer Information System implementation began in 2nd quarter 2005 and is proceeding on time and on budget. Interfaces and conversion data for the system are being reviewed. The project is on schedule for completion in September 2006.

April 2006
Issue 2

enQ



enQuesta Inquiry Portal to Facilitate Customer Service

The *Inquiry Portal* is the user-friendly, menu-driven interface that you'll use to quickly and easily navigate through *enQuesta* to access the many types of customer information. It will be customized to meet DWM's needs.

The *Inquiry Portal* was designed to

- Search Criteria Panel
- Fast Facts Panel
- Account Dates Panel
- Customer Information
- Component Area
- Top Icon Bar
- Navigation Tabs
- Quick Links



Environmental Compliance



Environmental Compliance through March 2006

Municipal Separate Storm Sewer Systems (MS4) Permit Compliance - 3rd Quarter 2005 – 1st Quarter 2006

Activity	July-December 2005	1 st Quarter 2006
NPDES Water Quality Trend Sample Collection and Testing (16 wet weather composite samples needed annually)	12	4
NPDES Dry Weather Outfall Screenings (68 required annually)	42	16
NPDES Fecal Coliform Sample Collection & Testing (112 samples required by EPD annually)	84	28
NPDES Industrial facility inspections and Monitoring (Up to 1,000 required out of a potential 8,000 industrial sites)	540	215
NPDES Inspections and Monitoring of Stormwater Control Structures	8,456	1,945
Stormwater Erosion and Flooding Complaints and Inquiries Investigated	129	57

Future Stormwater Utility

The Bureau of Watershed Protection is currently preparing a Briefing Book of proposed programs for watershed protection, one of which is the development of a stormwater utility. The Briefing Book should be completed by the end of May 2006 and distributed to the Administration and City Council members. The document will include the following:

- Outline of the Watershed Protection Plan
- Schedule for completion of GIS mapping and development of the stormwater utility
- Stakeholder involvement plan
- Draft stormwater utility ordinance



Greenway Acquisition – Expenditures to Date

A.	Past fee simple and conservation easement Greenway Property acquisitions, April 1, 2001 through September 30, 2005	\$13,464,913.70
B.	Current Fee simple and conservation easement Greenway Property acquisitions, October 1, 2005 through March 31, 2006	<u>\$2,115,340.00</u>
Total Greenway Land Expenditures		<u>\$15,902,290.62</u>
C.	Land Expenditure Goal	\$22,500,000.00
Amount Remaining to spend		<u>\$6,597,709.38</u>

Greenway Acquisition Activities

- Eleven (11) parcels comprising 333 acres were acquired during the last six months (October 1, 2005 through March 31, 2006), for a total cost of \$2.1 million. One hundred fifty-five (155) parcels were acquired during previous reporting periods.
- To date, the City has acquired a total of one hundred sixty-six (166) parcels comprising over 1,100 acres and protecting over 22 miles of streambanks.
- During the 1st quarter of 2006, a total of \$1.5 million was spent on 292 acres. Of this amount, \$780,000 was expended on 157 acres south of Utoy Creek.
- Total committed Greenway funds to date (closed and under contract): \$18.6 million on approximately 1,032 acres. Of this amount, \$2.8 million is committed on 553 acres in the "South of Utoy" area.
- An additional \$2.7 million in acquisitions is under contract, and the remaining funds are tied up in negotiations with willing sellers.
- To date, the City has closed and contracted 83% of the \$22.5 million in Greenway funds allocated for land acquisition. The project may be closed out by the end of 2006, ahead of the Consent Decree deadline of March 31, 2007.



Greenway Acquisitions: 2001-1st Quarter 2006

Creek Name	Parcel ID Number	Jurisdiction	Fee or CE Acquisition?	Greenway width or whole property?	Purchase Amount	Purchase Date	Area Purchased (acres)	Stream Bank Protected (ft)	Stream Bank Protected (mi)	Council District
South Fork Peachtree	0017-0003-0000-029	ATLANTA	Fee	whole	\$ 56,720.00	09/26/2001	3.15	85	0.02	6
South Utoy Creek	14 0248 LL038	ATLANTA	Fee	whole	\$ 400,000.00	12/15/2001	73.36	5860	1.11	11
South Utoy Creek	14 0233 LL077	ATLANTA	Fee	whole	\$ -	12/15/2001	0	0	0	11
South Utoy Creek	14 0249 LL035	ATLANTA	Fee	whole	\$ -	12/15/2001	0	0	0	11
Peachtree Creek	0017-0219-0000-021	ATLANTA	Fee	whole	\$ 725,000.00	03/31/2002	10.35	1840	0.35	9
South River	14 0059 LL035	ATLANTA	Fee	whole	\$ -	04/29/2002	0	0	0	1, 12
South River	14 0059 LL013	ATLANTA	Fee	whole	\$ 92,098.00	04/29/2002	26.54	2740	0.52	1, 12
South River	14 00590004033	ATLANTA	Fee	whole	\$ 30,557.09	06/05/2002	0.5	100	0.02	1
Utoy Creek	14 0204 LL025	ATLANTA	Fee	whole	\$ -	12/03/2002	0	0	0	10
Utoy Creek	14 0203 LL073	ATLANTA	Fee	whole	\$ 979,086.00	12/03/2002	54	4620	0.88	10
Utoy Creek	14 0182 LL029	ATLANTA	Fee	whole	\$ 400,000.00	12/19/2002	60	7619	1.44	11
Utoy Creek	14 01820002063	ATLANTA	Fee	whole	\$ -	12/19/2002	0	0	0	11
Utoy Creek	14 0203 LL003	ATLANTA	Fee	whole	\$ -	12/19/2002	0	0	0	11
Utoy Creek	14 01820001017	ATLANTA	Fee	whole	\$ -	12/19/2002	0	0	0	11
Utoy Creek	14 0213 LL090	ATLANTA	Fee	width	\$ 160,500.00	03/03/2003	12.65	2640	0.5	10
Utoy Creek	14 0213 LL088	ATLANTA	Fee	whole	\$ -	03/03/2003	0	0	0	10
Utoy Creek	14 01820002041	ATLANTA	Fee	whole	\$ 36,100.00	04/08/2003	1.3	310	0.06	11
Proctor Creek	17 0258 LL121	ATLANTA	Fee	whole	\$ 17,250.00	04/28/2003	8.6	1770	0.34	9
South River	14 0037 LL044	ATLANTA	Fee	whole	\$ 63,300.00	06/30/2003	1.2	85	0.02	12
South Utoy Creek	14 0186 LL093	ATLANTA	Fee	whole	\$ 580,000.00	07/01/2003	16.56	750	0.14	11
Utoy Creek	14F0012 LL010	ATLANTA	Fee	whole	\$ 200,000.00	07/28/2003	4.87	344	0.07	10
South River	14 0059 LL070	ATLANTA	Fee	width	\$ 8,000.00	08/21/2003	0.22	93	0.02	12
Utoy Creek	14 02360005009	ATLANTA	Fee	width	\$ 11,050.00	08/21/2003	0.51	270	0.05	10
Utoy Creek	14 02360002054	ATLANTA	Fee	width	\$ 3,000.00	08/21/2003	0.15	57	0.01	10
Utoy Creek	14 01710013010	ATLANTA	Fee	width	\$ 4,250.00	08/21/2003	0.15	55	0.01	11
Intranchment Creek	1508301002	DEKALB	Fee	width	\$ 307,860.00	10/17/2003	15.61	1118	0.21	N/A
Intranchment Creek	1508301003	DEKALB	Fee	width	\$ -	10/17/2003	0	0	0	N/A
South Utoy Creek	14 01990003058	ATLANTA	Fee	width	\$ 3,953.00	10/22/2003	0.23	80	0.02	11
Proctor Creek	17 0257 LL004	ATLANTA	Fee	whole	\$ 32,910.00	10/27/2003	21.95	2700	0.51	9
South Utoy Creek	14 01990006035	ATLANTA	Fee	width	\$ 28,400.00	10/29/2003	1.27	450	0.09	11
South Utoy Creek	14 01990003063	ATLANTA	Fee	width	\$ 4,400.00	10/31/2003	0.2	86	0.02	11
South Utoy Creek	14 0199 LL121	ATLANTA	Fee	width	\$ 40,900.00	11/04/2003	1.49	160	0.03	11
South Utoy Creek	14 01990004036	ATLANTA	Fee	width	\$ 5,750.00	11/04/2003	0.14	75	0.01	11
South River Trib	0014-0073-0000-005	ATLANTA	Fee	whole	\$ 259,200.00	11/07/2003	7	1200	0.23	12
South Utoy Creek	14 02000003028	ATLANTA	Fee	width	\$ 2,000.00	11/10/2003	0.14	190	0.04	11
South Utoy Creek	14 01990006025	ATLANTA	Fee	width	\$ 9,500.00	11/10/2003	0.44	150	0.03	11
South Utoy Creek	14 01990006004	ATLANTA	Fee	width	\$ 11,150.00	11/17/2003	0.52	135	0.03	11
Utoy Creek	14 0203 LL040	ATLANTA	Fee	whole	\$ 30,200.00	11/21/2003	1.05	295	0.06	10
South Utoy Creek	14 0199 LL128	ATLANTA	Fee	whole	\$ 254,250.00	11/24/2003	10	596	0.11	11
South Utoy Creek	14 01990003059	ATLANTA	Fee	width	\$ 10,850.00	11/24/2003	0.43	102	0.02	11
South Utoy Creek	14 01990004025	ATLANTA	Fee	width	\$ 10,500.00	11/25/2003	0.37	70	0.01	11
South Utoy Creek	14 02170004011	ATLANTA	Fee	whole	\$ 20,300.00	11/26/2003	0.77	144	0.03	11

South Utoy Creek	14 02000003032	ATLANTA	Fee	whole	\$ 12,250.00	11/26/2003	1.06	36	0.01	11
South Utoy Creek	14 01990006030	ATLANTA	Fee	width	\$ 10,150.00	11/26/2003	0.24	64	0.01	11
Utoy Creek	14 02360002010	ATLANTA	Fee	width	\$ 63,000.00	12/03/2003	2.83	1264	0.24	10
South Utoy Creek	14 01990003061	ATLANTA	Fee	width	\$ 4,500.00	12/05/2003	0.21	80	0.02	11
South Utoy Creek	14 01990003060	ATLANTA	Fee	width	\$ 9,900.00	12/05/2003	0.44	108	0.02	11
South Utoy Creek	14 0248 LL048	ATLANTA	Fee	width	\$ 16,600.00	12/09/2003	0.58	156	0.03	11
South Utoy Creek	14 01990004035	ATLANTA	Fee	width	\$ 4,000.00	12/09/2003	0.07	97	0.02	11
South Utoy Creek	14 01990006026	ATLANTA	Fee	width	\$ 9,100.00	12/09/2003	0.45	185	0.04	11
South Utoy Creek	14 02170003024	ATLANTA	Fee	width	\$ 17,150.00	12/10/03	0.8	164	0.03	11
South Utoy Creek	14 01990004032	ATLANTA	Fee	width	\$ 13,200.00	12/11/2003	0.23	86	0.02	11
South Utoy Creek	14 01990004019	ATLANTA	Fee	width	\$ 24,600.00	12/11/2003	1	344	0.07	11
Peachtree Creek	0017-0219-0000-036	ATLANTA	Fee	width	\$ 167,000.00	12/11/2003	1.39	485	0.09	8
Intranchment Creek	14 0009 LL035	ATLANTA	Fee	whole	\$ 262,000.00	12/15/2003	1.74	290	0.05	1
Utoy Creek	14 02360002011	ATLANTA	Fee	width	\$ 10,700.00	12/16/2003	0.63	515	0.1	10
South Utoy Creek	14 01990004024	ATLANTA	Fee	width	\$ 5,500.00	12/16/2003	0.18	60	0.01	11
South Utoy Creek	14 01990004033	ATLANTA	Fee	width	\$ 9,150.00	12/17/2003	0.23	105	0.02	11
Utoy Creek	14 01820002034	ATLANTA	Fee	width	\$ 7,200.00	01/09/2004	0.34	83	0.02	11
South Utoy Creek	14 01990006018	ATLANTA	Fee	width	\$ 3,600.00	01/16/2004	0.11	15	0	11
Utoy Creek	14 0203 LL051	ATLANTA	Fee	whole	\$ 4,200.00	01/26/2004	0.29	148	0.03	10
South Utoy Creek	14 0248 LL047	ATLANTA	Fee	width	\$ 33,300.00	01/26/2004	1.18	392	0.07	11
Utoy Creek	14 02360005008	ATLANTA	Fee	width	\$ 19,900.00	01/28/2004	0.83	373	0.07	10
South Utoy Creek	14 01990004038	ATLANTA	Fee	width	\$ 16,400.00	01/28/2004	0.53	238	0.05	11
South Utoy Creek	14 0233 LL036	ATLANTA	Fee	whole	\$ 73,400.00	01/30/2004	5.39	1554	0.29	11
South Utoy Creek	14 0232 LL081	ATLANTA	Fee	whole	\$ -	01/30/04	0	0	0	11
South Utoy Creek	14 0232 LL088	ATLANTA	Fee	whole	\$ -	1/30/04	0	0	0	11
Utoy Creek	14 0203 LL075	ATLANTA	Fee	whole	\$ 32,000.00	02/06/2004	1.07	135	0.03	10
South Utoy Creek	14 01990006024	ATLANTA	Fee	width	\$ 11,300.00	02/16/2004	0.43	133	0.03	11
South Utoy Creek	14 0199 LL131	ATLANTA	Fee	width	\$ 34,200.00	03/08/2004	1.55	510	0.1	11
Utoy Creek	14 0203 LL047	ATLANTA	Fee	width	\$ 7,200.00	03/09/2004	0.25	83	0.02	10
South Utoy Creek	14 01990004020	ATLANTA	Fee	width	\$ 7,100.00	03/09/2004	0.2	66	0.01	11
Proctor Creek	14 01450008018	ATLANTA	Fee	whole	\$ 19,800.00	03/17/2004	0.67	75	0.01	9
South River	14 0028 LL058	ATLANTA	CE	whole	\$ 132,700.00	04/21/2004	13.11	1083	0.21	1, 12
South River	14 0037 LL035	ATLANTA	CE	width	\$ -	04/21/2004	0	0	0	12
South Utoy Creek	14 0232 LL083	ATLANTA	Fee	whole	\$ 22,500.00	05/03/2004	1.99	225	0.04	11
Utoy Creek	14 01710011016	ATLANTA	Fee	whole	\$ 8,900.00	05/07/2004	0.36	173	0.03	11
Utoy Main Stem	14F0026 LL007	ATLANTA	Fee	whole	\$ 756,900.00	05/17/2004	38.5	1284	0.24	10
Utoy Main Stem	14F0026 LL007	ATLANTA	Fee	whole	\$ -	05/17/2004	0	0	0	10
Utoy Main Stem	14F0027 LL013	ATLANTA	Fee	whole	\$ -	05/17/2004	0	0	0	10
Peachtree Creek	0017-0220-0005-011	ATLANTA	CE	width	\$ 35,500.00	05/24/2004	0.45	117	0.02	8, 9
Peachtree Creek	0017-0220-0005-010	ATLANTA	CE	width	\$ 26,800.00	05/26/2004	0.34	84	0.02	8, 9
Peachtree Creek	0017-0220-0005-009	ATLANTA	CE	width	\$ 28,600.00	05/26/2004	0.36	82	0.02	8, 9
Peachtree Creek	0017-0220-0005-008	ATLANTA	CE	width	\$ 28,900.00	05/26/2004	0.37	92	0.02	8, 9

Peachtree Creek	0017-0220-0005-012	ATLANTA	CE	width	\$ 38,300.00	05/28/2004	0.49	147	0.03	8,9
Peachtree Creek	0017-0220-0002-027	ATLANTA	CE	width	\$ 53,200.00	05/28/2004	0.68	225	0.04	8,9
Peachtree Creek	0017-0220-0005-027	ATLANTA	CE	width	\$ 39,100.00	05/28/2004	0.43	116	0.02	9
Peachtree Creek	0017-0111-0004-011	ATLANTA	CE	width	\$ 89,900.00	06/07/2004	0.77	230	0.04	8
South Utoy Creek	14 01990004034	ATLANTA	CE	width	\$ 11,650.00	06/11/2004	0.22	86	0.02	11
Utoy Creek	14 01820002036	ATLANTA	CE	width	\$ 1,900.00	06/16/2004	0.23	101	0.02	11
South Utoy Creek	14 0216 LL075	ATLANTA	CE	width	\$ 7,550.00	06/16/2004	2.22	580	0.11	11
Peachtree Creek	0017-0220-0002-039	ATLANTA	CE	width	\$ 40,100.00	06/18/2004	0.51	150	0.03	8,9
Peachtree Creek	0017-0220-0002-002	ATLANTA	CE	width	\$ 27,000.00	06/18/2004	0.34	90	0.02	8,9
Peachtree Creek	0017-0111-0004-023	ATLANTA	CE	width	\$ 232,300.00	06/21/2004	1.37	190	0.04	8
Peachtree Creek	0017-0232-0000-073	ATLANTA	CE	width	\$ 83,700.00	06/23/2004	0.49	124	0.02	8
Clear Creek	0017-0103-0001-057	ATLANTA	CE	width	\$ 45,100.00	06/28/2004	0.34	48	0.01	7
Peachtree Creek	0017-0232-0000-072	ATLANTA	CE	width	\$ 53,200.00	06/28/2004	0.41	125	0.02	8
Peachtree Creek	0017-0220-0002-038	ATLANTA	CE	width	\$ 75,000.00	07/02/2004	0.89	275	0.05	8,9
South River Trib	0014-0072-0001-041	ATLANTA	Fee	whole	\$ 38,400.00	07/06/2004	0.96	266	0.05	12
Clear Creek	0017-0103-0002-043	ATLANTA	CE	width	\$ 70,300.00	07/07/2004	0.36	215	0.04	7
South River	14 0070 LL086	ATLANTA	Fee	whole	\$ 35,200.00	07/09/2004	6.7	1096	0.21	1, 12
Peachtree Creek	0017-0219-0000-063	ATLANTA	Fee	whole	\$ 318,850.00	07/14/2004	9.26	1870	0.35	8,9
Dog River	00450250014	DOUGLAS	Fee	whole	\$ 240,000.00	07/19/2004	28.13	1630	0.31	N/A
Dog River	00450250013	DOUGLAS	Fee	whole	\$ -	07/19/2004	0	0	0	N/A
South Fork Peachtree	0017-0004-0003-022	ATLANTA	Fee	width	\$ 605,700.00	07/21/2004	4.63	810	0.15	6
South Utoy Creek	14 01990004037	ATLANTA	Fee	width	\$ 2,900.00	07/26/2004	0.15	68	0.01	11
Peachtree Creek	0017-0220-0005-014	ATLANTA	CE	width	\$ 40,400.00	07/28/2004	0.94	280	0.05	8,9
Peachtree Creek	0017-0220-0002-023	ATLANTA	CE	width	\$ 69,500.00	08/11/2004	0.61	244	0.05	8,9
Utoy Main Stem	14F0027 LL018	ATLANTA	Fee	whole	\$ 214,100.00	08/12/2004	20.39	2054	0.39	10
Utoy Main Stem	14F0011 LL014	ATLANTA	Fee	width	\$ 284,700.00	08/12/2004	13.56	0	0	10
Utoy Main Stem	14F0027 LL018	ATLANTA	Fee	whole	\$ -	08/12/2004	0	0	0	10
South River Trib	0014-0072-0004-005	ATLANTA	Fee	whole	\$ 25,800.00	08/25/2004	0.26	55	0.01	12
South River Trib	0014-0072-0004-004	ATLANTA	Fee	whole	\$ 29,750.00	08/25/2004	0.3	95	0.02	12
Sweetwater Creek	18009000080	AUSTELL, COBB	Fee	whole	\$ 173,300.00	08/30/2004	23.1	2755	0.52	N/A
Sweetwater Creek	18014300020	AUSTELL, COBB	Fee	whole	\$ -	08/30/2004	0	0	0	N/A
Utoy Creek		ATLANTA	Fee	width	\$ 263,257.61	09/02/2004	43.45	6400	1.21	10
Utoy Creek		ATLANTA	Fee	width	\$ -	09/02/2004	0	0	0	10
Peachtree Creek	0017-0111-0004-010	ATLANTA	CE	width	\$ 99,400.00	09/21/2004	1.28	380	0.07	8
Peachtree Creek	0017-0145-0002-053	ATLANTA	CE	whole	\$ 464,800.00	09/21/2004	2.05	426	0.08	8
Peachtree Creek	0017-0111-0004-025	ATLANTA	CE	whole	\$ -	09/21/2004	0	0	0	8
Peachtree Creek	0017-0220-0002-026	ATLANTA	CE	width	\$ 135,700.00	10/07/2004	1.29	176	0.03	8,9
Sweetwater Creek	18002800020	AUSTELL, COBB	CE	width	\$ 18,600.00	10/08/2004	0.69	246	0.05	N/A
Sweetwater Creek	18002800060	AUSTELL, COBB	CE	width	\$ 14,432.00	10/26/2004	1.06	350	0.07	N/A
Sweetwater Creek	18009000070	AUSTELL, COBB	CE	width	\$ 5,000.00	11/03/2004	1.14	294	0.06	N/A
Sweetwater Creek	18008900150	AUSTELL, COBB	Fee	whole	\$ 28,000.00	11/10/2004	3.1	447	0.09	N/A
Sweetwater Creek	18008900140	AUSTELL, COBB	Fee	whole	\$ -	11/10/2004	0	0	0	N/A
Sweetwater Creek	18008900130	AUSTELL, COBB	Fee	whole	\$ -	11/10/2004	0	0	0	N/A
Sweetwater Creek	19128500080	AUSTELL, COBB	Fee	width	\$ 111,000.00	12/09/2004	49.14	3360	0.64	N/A
Sweetwater Creek	19128500080	AUSTELL	Fee	width	\$ -	12/09/2004	0	0	0	N/A
Peachtree Creek	0017-0220-0005-026	ATLANTA	CE	width	\$ 77,000.00	12/10/2004	0.56	170	0.03	9
Sweetwater Creek	18008900010	AUSTELL, COBB	CE	width	\$ 15,000.00	12/10/2004	0.64	230	0.04	N/A
Utoy Main Stem	14F0011 LL027	ATLANTA	CE	width	\$ 118,500.00	12/13/2004	22.65	55	0.01	10
Peachtree Creek	0017-0220-0000-035	ATLANTA	CE	width	\$ 288,000.00	12/15/2004	8.01	2050	0.39	9
Peachtree Creek	0017-0220-0008-000	ATLANTA	CE	width	\$ -	12/15/2004	0	0	0	9
Peachtree Creek	0017-0220-0007-000	ATLANTA	CE	width	\$ -	12/15/2004	0	0	0	9
Sweetwater Creek	19128200020	AUSTELL, COBB	Fee	whole	\$ 30,700.00	12/27/2004	3.41	240	0.04	N/A

Sweetwater Creek	19128200040	AUSTELL, COBB	Fee	whole	\$ 15,300.00	12/27/2004	1.7	0	0	N/A
Sweetwater Creek	19128200050	AUSTELL, COBB	Fee	whole	\$ -	12/27/2004	0	0	0	N/A
Peachtree Creek	0017-0220-0005-007	ATLANTA	CE	width	\$ 22,700.00	12/28/2004	0.29	65	0.01	8, 9
Proctor Creek	17 0263 LL025	ATLANTA	Fee	width	\$ 511,800.00	12/29/2004	28.4	2660	0.5	9
Proctor Creek	17 0262 LL046	ATLANTA	Fee	whole	\$ -	12/29/2004	0	0	0	9
Peachtree Creek	0017-0220-0005-013	ATLANTA	CE	width	\$ 42,300.00	01/07/2005	0.54	153	0.03	8, 9
Utoy Creek	14 0203 LL018	ATLANTA	Fee	whole	\$ 1,210,000.00	01/20/05	19.31	2340	0.44	10
Sweetwater Creek	18014200240	AUSTELL, COBB	CE	width	\$ 96,300.00	02/25/05	25.67	1860	0.35	N/A
Sweetwater Creek	18014200240	AUSTELL, COBB	CE	width	\$ -	02/25/2005	0	0	0	N/A
Sweetwater Creek	18014300010	AUSTELL, COBB	CE	width	\$ -	02/25/2005	0	0	0	N/A
Sweetwater Creek	02031820006	DOUGLAS	CE	width	\$ -	02/25/2005	0	0	0	N/A
Sweetwater Creek	02021820001	DOUGLAS	Fee	whole	\$ 143,700.00	02/25/2005	9.8	1450	0.28	N/A
Peachtree Creek	0017-0232-0000-071	ATLANTA	CE	width	\$ 58,600.00	03/02/2005	0.41	140	0.03	8
Sweetwater Creek	8140-03-34.00-000	PAULDING	Fee	whole	\$ 83,400.00	06/23/2005	10.02	400	0.08	N/A
Sweetwater Creek	8140-03-31.00-000	PAULDING	CE	width	\$ 5,200.00	07/19/2005	2.31	770	0.14	N/A
South Fork Peachtree	0017-0004-0005-001	ATLANTA	Fee	width	\$ 218,686.92	07/20/2005	1.24	750	0.14	6
Dog River	00070250005	DOUGLAS	CE	width	\$ 3,300.00	08-29-2005	1.18	290	0	N/A
Cedar Creek	05805230016	COWETA	Fee	width	\$ 11,150.00	08/31/2005	2.79	1080	0	N/A
Cedar Creek	07005231011	COWETA	Fee	width	\$ -	08-31-2005	0	0	0	N/A
Cedar Creek	05805230002	COWETA	Fee	width	\$ 26,000.00	10/21/2005	6.5	992	0	N/A
Sweetwater Creek	19131500060	COBB	CE	width	\$ 6,230.00	10/27/2005	1.43	700	0	N/A
Sweetwater Creek	19131400080	COBB	CE	width	\$ 4,860.00	10/27/2005	1.12	425	0	N/A
Wahoo Creek	0850585B157	COWETA	Fee	width	\$ 45,000.00	10/28/2005	4.81	650	0	N/A
Sweetwater Creek	18020200010	AUSTELL, DOUGLAS	CE	width	\$ 97,800.00	11/15/2005	5.43	1560	0	N/A
Utoy Creek	14F0012 LL006	FULTON	CE	width	\$ 34,650.00	11/20/2005	3.3	484	0	N/A
Peachtree Creek	0017-0220-0005-004	ATLANTA	CE	width	\$ 42,700.00	11/21/2005	0.42	130	0	8, 9
Snake Creek	198013		CE	whole	\$ 780,000.00	12/6/2005	156.98	4500	0	
South River	N/A		Fee	width	\$ 300,000.00	12/15/2005	14.07	677	0	
Sweetwater Creek	19128400020	AUSTELL, COBB	CE	width	\$ 18,100.00	2/5/2006	4.83	1510	0	N/A
Honey Creek	N/A		CE	width	\$ 760,000.00	2/28/2006	135	0	0	
TOTAL					\$ 15,902,290.62		1111.08			